SUMMARY OF SAFETY AND EFFECTIVENESS

This summary of safety and effectiveness is being submitted in accordance with the requirements of The Safe Medical Devices Act of 1990 (SMDA 1990) and 21 CFR 807.92.

I. GENERAL INFORMATION

Date of Summary Preparation:

January 27, 2000

Distributor:

BRAHMS Diagnostica, LLC 29 South Peachtree Street

Norcross, Georgia 30092

Manufacturer:

BRAHMS Diagnostica, GmbH

Neuendorfstrasse 25

D-16761 Hennigsdorf Germany

Contact Person:

H. Lee Herron

Partner

BRAHMS Diagnostica, LLC 29 South Peachtree Street Norcross, Georgia 30092 Tel: 770-449-7738

Fax: 770-449-7739

Device Name:

LUMItest® anti-TPO_n

Common or Usual Name:

Luminescence immunoassay kit for the determination of anti-thyroid peroxidase

antibodies

Classification:

Name:

Thyroid autoantibody immunological test system

Class

Class II

CFR:

21 CFR 866.5870

Substantial Equivalence To:

DYNOtest® anti-TPO_n

II. INTENDED USE

LUMItest anti-TPO_n is a competitive luminescence immunoassay for the quantitative determination of autoantibodies to thyroid peroxidase (TPO) in human serum using the coated tube technique. The LUMItest anti-TPO_n kit is used as an aid in the diagnosis of Hashimoto's thyroiditis and Graves' disease, autoimmune diseases affecting the thyroid gland.

III.DEVICE DESCRIPTION

LUMItest anti-TPO_n is a competitive luminescence immunoassay intended for the quantitative determination of autoantibodies against thyroid peroxidase in human sera using a coated tube technique. A mouse monoclonal antibody against thyroid peroxidase bound to the solid phase competes with autoimmune anti-thyroid peroxidase antibodies in patient samples, standards and controls for indirectly labeled native human thyroid peroxidase which is added to the test tubes. The indirect label consists of a luminescent labeled (acridinium ester) monoclonal antibody against a separate epitope on the added thyroid peroxidase. Following incubation, unreacted, labeled monoclonal antibody and unreacted thyroid peroxidase are washed from the tube and luminescence bound to the tube is measured in a luminometer. The measured luminescence is inversely proportional to the quantity of anti-thyroid peroxidase antibody in the sample.

IV. COMPARISON TO PREDICATE DEVICE

The LUMItest® anti-TPO_n immunoassay kit is similar to the BRAHMS Diagnostica DYNOtest anti-TPO kit (K992791) in the indications for use, format, solid phase, performance characteristics and results. The LUMItest anti-TPO_n test differs from the DYNOtest anti-TPO_n only in the signal. In the LUMItest anti-TPO_n assay, a luminogenic molecule, acridinium ester, is used to replace the ¹²⁵I signal used in the DYNOtest anti-TPO_n assay.

Substantial equivalence to the DYNOtest anti-TPO_n kit cleared under K992791 is based on clinical comparison using 509 serum samples from normal blood donors (n=300) and patients with Graves' disease, Hashimoto's thyroiditis and non-autoimmune thyroid disease (n=209). Overall agreement of both groups based on a 2 X 2 agreement table was 507/509 = 99.6%.

		DYNOtest anti-TPO	
LUMItest Anti-TPO		Positive	Negative
	Positive	184	2
777	Negative	0	323

% Agreement = 99.6%

This correlation study demonstrates that the LUMItest anti-TPO_n assay is substantially equivalent to the legally marketed predicate device, BRAHMS Diagnostica DYNOtest anti-TPO assay.

DEPARTMENT OF HEALTH & HUMAN SERVICES



MAR 1 7 2000

Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Mr. H. Lee Herron Partner BRAHMS Diagnostica, LLC 29 South Peachtree Street Norcross, Georgia 30092

Re: K000287

Trade Name: LUMItest® anti-TPO_n

Regulatory Class: II Product Code: JZO Dated: January 28, 2000 Received: January 31, 2000

Dear Mr. Herron:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Current Good Manufacturing Practice requirements, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic QS inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

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This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4588. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsma/dsmamain.html".

Sincerely yours,

Steven I. Gutman, M.D., M.B.A.

Director

Division of Clinical Laboratory Devices

Steven Butman

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

1. Indications for Use Statement

510(k) Number (if known): K000287 **Device Name:** LUMItest anti-TPO_n

Indications For Use:

LUMItest anti-TPO_n is a competitive luminescence immunoassay for the quantitative determination of autoantibodies to thyroid peroxidase (TPO) in human serum using the coated tube technique. The LUMItest anti-TPO_n kit is used as an aid in the diagnosis of Hashimoto's thyroiditis and Graves' disease, autoimmune diseases affecting the thyroid gland.

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concur	rence of CDRH, Office of D	Device Evaluation (ODE)
	Star E. M	Taken
/	(Division Sign-Off) Division of Clinical Laboratory 510(k) Number	Devices 287
Prescription Use (Per 21 CFR 801.109)	OR	Over-The-Counter Use